

Appl. No. 10/616,997  
Amendment in response to  
Final Office Action mailed 05/22/2007

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**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A method for extracting information from an observed signal representing measured brain activity of a subject in order to evaluate the level of depression of the CNS of said subject, said method comprising:

- a) acquiring at least ~~one~~ two reference signals, said at least ~~one~~ two reference signals corresponding to a two distinct CNS states obtained from one or more reference subject or subjects;
- b) selecting a wavelet transformation function which, when applied to one of said at least ~~one~~ two reference signals, yields a set of coefficients;
- c) selecting a statistical function which, when applied to said set of coefficients derived from one of said at least ~~one~~ two reference signals, or a subset of said set of coefficients, yields a reference data set which characterizes the distinct CNS state corresponding to said one of at least ~~one~~ two reference signals;